

Women in Engineering & Science Program
 125 Seaton Hall
 Kansas State University
 Manhattan, KS 66506-2905
 3758

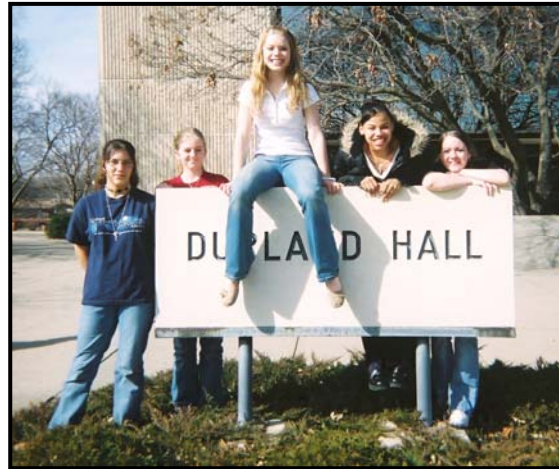
Kansas State University is committed to making program activities accessible to all participants. If you have special requirements due to disabilities or dietary restrictions, indicate your needs on the application form or contact the Division of Continuing Education Registrar at (785) 532-5566 at least three weeks before the start of the program. After this date, we will make every effort to provide assistance, but cannot guarantee that requested services will be available.

Notice of Nondiscrimination: Kansas State University is committed to a policy of non-discrimination on the basis of race, sex, national origin, disability, religion, age, sexual orientation, or other nonmerit reason, in admissions, educational programs or activities, and employment (including employment of disabled veterans and veterans of Vietnam era), all as required by applicable laws and regulations. Responsibility for coordination of compliance efforts and receipt of inquiries, including those concerning Title IX of the Education Amendments of 1972 and Section 504 of the Rehabilitation Act of 1973, and the Americans with Disabilities Act, has been delegated to Jane D. Rowlett, Ph. D., Director of Unclassified Affairs and University Compliance, 225 Anderson Hall, Kansas State University, Manhattan, KS 66506-0124, (785) 532-4392.



Shadow Day

October 13, 2009



Hosted By



Shadow Day

Tuesday, October 13, 2009

REGISTRATION FORM

 Last Name First Name

 Home Address

 City State Zip

 Name of parent or guardian

 Email Address (optional)

 Name of friend you would like to be paired with (optional)

 Home Phone Daytime Phone
 (parents)

 Cell Phone (parents) Current Grade
 (10th, 11th or 12th)

- \$20.00 Student Registration Fee enclosed
- \$10.00 Adult Registration Fee enclosed
- I need a financial scholarship (complete scholarship form)
- I need a K-State parking pass

Assistance for Participants with Disabilities/Dietary Requirements

In order to assist you, please indicate any special requirements and assistance needed:

Send form to:
EXCITE! Program
Kansas State University
125 Seaton Hall
Manhattan, KS 66506-2905

Deadline: October 5, 2009
Please make checks payable to K-State

Shadow Day

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SCHOLARSHIP FORM

Need-based scholarships are available. A parent or legal guardian should complete this application if your daughter has financial need and wants to be considered for a scholarship. This information will not be shared with anyone outside the WESP office.

 Name of parent or guardian

 Number of children in family

1. Please check all that apply (In the descriptions listed below, **immigrant or immigrated refers to those with or without papers**):

- My daughter participates in the reduced fee lunch program.
- My daughter would qualify for the reduced fee lunch programs but we choose not to participate.
- My daughter's parents did not graduate from college.
- My daughter is Latina.
- My daughter is an immigrant.
- One of more of my daughter's parents immigrated to the U.S.
- One or more of my daughter's grandparents immigrated to the U.S.
- My daughter will not be able to attend this event without financial assistance.

2. Please provide any other information you wish to share in helping us accommodate your needs. A short written statement is helpful. Use additional paper as needed.

 Signature of Parent/Guardian Date

[Signature indicates that all information is accurate to the best of your knowledge.]

What will we do?

Okay girls! This is your chance to see what a typical day at college is like for a female science, technology, engineering or mathematics student. You will go to class with your mentor, explore campus life, have lunch and attend a closing session where a panel of students will answer your questions about life as a college student.

Be aware! You will sit in on college classes and will not understand everything that is discussed. We don't expect you to! This is not about understanding the class; it is about seeing what a college classroom feels like.

Tentative Schedule:

When	What
9:00 - 9:15am	Registration
9:20 - 10:20pm	"Finding a College Major that's right for YOU" Workshop
10:30 - 1:30pm	Shadow Time & Lunch
1:40 - 2:00pm	Closing Session

Who should attend this event?

This event is intended for girls currently in the tenth, eleventh and twelfth grades. Girls can come on their own, with a group of friends or as a class.

Parents and teachers are invited to attend with their students, however, during the shadow time you will have separate activities. Adults who attend the event will also be asked to pay a registration fee.



When & Where?

Tuesday, October 13th - we will begin the day at 9am and end at 2pm. All events will take place at the K-State campus in Manhattan. Please arrive no later than 9am for registration!

How do I sign up?

The registration fee of \$20 includes event participation, lunch and parking pass (if needed).

To register, complete the registration form attached to this brochure and return it with your check or money order to the address on the attached form. **Please DO NOT SEND CASH!** Please make an additional copy of the form for each person attending the event.

Participants are responsible for their own transportation to and from Manhattan. However, **there are transportation funds available.** Call us for information on who qualifies for these funds.

Registrants will be mailed a confirmation letter, permission forms & maps as soon as we receive your completed registration form.

**Registration deadline is October 5, 2009.
However, registration will remain open until
the event is full.**

Registration is on a first come-first served basis; applications received after the event is full will be added to a waiting list. If cancellations are received by a reasonable date, substitutions will be made in the order in which the additional applications were received.

If you must cancel your registration, do so as soon as possible. You may arrange for someone to take your place. **Sorry, there will be no refunds.**



Who can I shadow?

You and another high school student will be paired with a K-State student female in a STEM major. As you read through the list of STEM majors think about the following things:

- What are some of the careers or jobs you can see yourself doing (we know you have more than just one!)?
- Which of these majors will help me get there?

We will do our best to match you with your first choice of majors but realize that sometimes that may not be possible and that is why we you to rank your interest in all the majors. **Please read the major choices listed and give us at least your top five choices.**

Architectural Engineering

Architectural engineers are responsible for designing the details of the building systems—structural, HVAC, plumbing, fire protection, and electrical—using the principles of engineering science, mathematics, and physics.

Biochemistry

Biochemistry focuses on the study of life at molecular level. As you go about your daily life biochemistry is sure to be involved. It has a role in: understanding the causes of diseases, use of engineered therapeutic proteins in medicine, food production & understanding how cells function.

Biological & Agricultural Engineering

Biological and agricultural engineers develop the techniques and systems to work with living systems, including plants and animals. They work to produce and process them into useful products like food, fiber, energy, and pharmaceuticals.

Biology

Studying biology teaches us to ask questions, make observations, evaluate evidence, and solve problems. Biologists learn how living things work, interact with one another and evolve.

Chemical Engineering

Chemical engineers use chemistry, physics, and math along with engineering tools to solve problems relating to the production and use of chemicals. This includes things like refining gasoline and other fuels from petroleum, purifying of drinking water, treating waste, recovering raw materials, and producing and processing food.

Chemistry

Chemistry offers excellent preparation for professional schools including medicine, dentistry, and veterinary science. Careers can be found in any of the traditional areas of chemistry as well as in forensic science, materials science, environmental science, food, paper, water, agricultural, petroleum, polymer, polymer, and paint/coatings chemistry, geochemistry, and scientific writing and/or art.

Civil Engineering

Civil engineers design and supervise the creation of structures. They work on everything from tunnels and dams, to highways and airports, to water and sewer systems. They use computer technologies to design structures that meet the needs of a growing population while considering future needs of the community.

Computer Engineering

Rather than just using computers, computer engineers apply scientific theory and engineering design to use and develop new computer hardware or software. They write programs to solve problems and create more efficient ways of doing things.

Computing and Information Sciences

Ever wonder how smart buildings control their internal environment, or how cars and planes can avoid collisions, or how pacemakers keep your heart in rhythm, or how movies are animated or video games create such realistic

environments, or how the internet connects all of society? It's not magic; it's software. With a degree in computer science or information systems you can contribute to society through the creation and development of such systems.

Electrical Engineering

Electrical engineers work with electricity in its many forms - from the electrons to the large scale magnetic fields. In addition to designing new products, they construct, operate, and maintain a wide variety of electrical systems and equipment like industrial robotics.

Geography

Geographers examine the way the physical environment and human activities interact and affect each other. Map reading and computing skills are important, as is knowledge of the physical environment and how it relates to social and cultural issues.

Geology

Their undergraduate training typically includes significant coursework in chemistry, physics, mathematics and possibly biology, in addition to classes offered through the geology department; volcanology, hydrology, and rock and mineral formation are among the many areas of study. Local, state, and national governments hire geologists to help plan and evaluate excavations, construction sites, environmental remediation projects, and natural disaster preparedness, as well as to investigate natural resources.

Industrial Engineering

Industrial engineers look at how people, machines, energy, resources, and information are used to accomplish goals and devise ways to improve those methods. Industrial engineers have sometimes been called "productivity people" and "efficiency experts".

Kinesiology

Kinesiology provides professional preparation for careers in fitness-related industries, athletic training, teaching and coaching, and health related fields such as physical therapy.

Math

Math is a broad field of study. Students find many choices available and have the option of tailoring their personal interests to a specific area of specialization.

Mechanical Engineering

Mechanical engineers research, design, manufacture, and test all kinds of mechanical things: medical instruments, tools, engines, machines, and other devices. They study materials, heat and energy transfer, manufacturing technologies, among other things to design machines and tools that will meet all the requirements for a particular job.

Physics

Physicists build upon the discoveries made through basic research and work to develop new devices, products, and processes. They design research equipment such as; laser surgery, microwave devices, and measurement instruments that analyze the chemical content of foods.